

November 2021

CITY OF ROCKVILLE
DEPARTMENT OF PUBLIC WORKS (DPW)
111 Maryland Avenue
Rockville, Maryland 20850
240-314-8500
www.rockvillemd.gov

Project Name: Legal Description: Subdivision: Lot(s) and Block(s): Parcel(s): Property Address: Tax Acct. ID(s): Engineering Firm: Contact Person: Phone Number: Email Address: Type of Plan submitted to PDS (Check one): PAM for PJT PAM for SPX PAM for STP PDS Case No: PDPW SMC Permit No. DPW SMC Permit No. DPW SMC Permit No. (assigned by DPW) DPW SMC Permit No: (assigned by DPW) DPW SMP Permit No: (assigned by DPW) DPW SMP Permit No: (assigned by DPW) How to Use this Checklist: This checklist has been developed to provide the engineer with guidance in preparing and submitting Stormwater Management Concept Plans. All items in this checklist must be addressed. The engineer must complete each item in the checklist prior to submittal and indicate the status by completing the left hand column entitled "Initial Submission." Use the legend below to complete this column. Any items that are marked INC (incomplete) must be explained. The engineer must sign this checklist indicating that it has been completed in accordance with this guidance and the Submission Acceptance Policy below. Some checklist items included an *1. In these cases, the Engineer is only required to provide a level of detail commensurate with the level of detail required for the related CPDS stage. For instance a SWM Concept submitted with a PAM Plan for a Site Plan may have less detail than a SWM Concept submitted with a Site Plan. Legend: = Complete or Provided, N/A = Not Applicable, INC = Incomplete (provide explanation) Submission Acceptance Policy: Correctly filling out this checklist will assist in the acceptance, review and approval process. All of the items in SECTION A - APPLICATION SECTION Section Must be provided with the initial submission for the City to accept the package and forward it to the Reviewer. Incomplete submissions may be rejected. Once forwarded to the Reviewer, the Reviewer will have one week to review the package for the items listed in SECTION B - SUBMISSION REQUIRMENTS. Failure to include the re	Type of Concept (Check	one): Pre-Application Develop	oment Combined
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Signature of Responsible Person Responsible Person's Name	Name of Firm	Date	
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Title

Initial		Rockville's Review		
Sub	mission	1st	2nd	3rd
A)	APPLICATION SECTION (Submissions shall be made using the City's Virtual Permit A available at www.rockvillemd.gov)	Applicatio	on portal	
1	Completed and signed Stormwater Management Concept (SMC) Application			
2				
	Rockville). Refer to Public Works Development Fee Schedule - available at:			
	www.rockvillemd.gov/286/Streets-Driveway-Right-of-Way			
3				
	sheets and must utilize the standard City base sheet. Vector-Based PDF files			
	are required for all plans, calculations, reports and other supporting			
	documentation. It is recommended that drawings created in AutoCAD are converted to Vector-Based PDF by using the Autodesk Vector Graphic			
	Converter "DWG to PDF.pc3 plotter driver."			
	Source I was a series production.			
B)	SUBMISSION REQUIREMENTS			
1	Transmittal explaining purpose of the submission including explanation of any			
2	unusual circumstances			
2	One digital (PDF) copy of the approved NRI/FSD. (An unapproved copy can be			
	submitted however a copy of the approved NRI/FSD must be provided prior to the approval of the SWM Concept)			
3	One digital (PDF) copy of the Plan submitted to PDS associated with this Concept			
<i>J</i>	(PAM, PJT, STP, etc.)			
4				
5				
6				
	Section E below) - Only required for Development SWM Concept application			
7	One digital (PDF) copy of the On-Site Drainage Area Map (see Section F below)			
8				
	Section G below)			
9				
	One digital (PDF) copy of the SWM Concept Report (see Section H below)			
	One digital (PDF) copy of the Geotechnical Report (see Section I below)			
	State of MD Professional Engineer certification on the first sheet of the plan set			
13 _	AutoCAD file of all public improvements, suitable for use in ESRI ArcMap. Required upon City's request prior to as-built approval			
	required upon city's request prior to as built approvai			
C)	SWM CONCEPT PLAN			
1	Scale 1" = 30' or larger with Legend, North arrow and Datum (NAD 83/91,			
	NGVD 88) unless otherwise approved. Provide two benchmarks with location, elevation and description. Provide two graticular tick marks per plan view sheet for			
	georeferencing			
2				
2 3				
J	the plan			
4	*			
5	Name, address, telephone number and email of Owner/Applicant on first sheet Title block containing project name, plan description, property's legal description			
	(subdivision, lots, parcels and blocks), election district, etc.	_ _	_	
6	Number sheets consecutively and provide match lines if needed. If plan set			
	contains more than two plan view sheets provide a composite sheet with drainage			
	divides and stormwater facilities shown			
7	All existing and proposed easements shown and labeled with limits, use and			
	Liber/Folio or plat and plat book. Include P.U.E.s			

Init	nitial Rockville's		ockville's Re	Review	
Sub	mission	1st	2nd	3rd	
C)	SWM CONCEPT PLAN (continued)				
8	Field verified existing topography and features and improvements including roads				
	(label public or private), buildings, parking, sidewalks, outbuildings, sheds, utilities,				
	SWM measures, etc.* The information is to be in the datum as noted in 2) above				
	unless otherwise approved.				
9	Location of all existing underground and overhead utilities*				
10_	Location of the following environmental features as depicted on the NRI/FSD:				
	Significant trees, street trees, ephemeral, perennial and intermittent streams, with				
	associated stream valley buffers, 100-YR floodplain with 25 foot building				
	restriction line, wetlands, wetlands buffers, park buffers, soils, hydric soils, seeps,				
	springs and steep slopes				
	Proposed improvements including roads, buildings, parking, sidewalks, etc.*				
	Proposed utilities including water, sewer, storm drain and appurtenances*				
13_	Proposed grading and spot elevations to support drainage areas to each SWM				
	measure and conveyance of runoff within and away from the site*				
14 _	Type, location, identifying label (i.e. SWM -1) and size (if applicable) of each SWM				
	measure proposed to be part of the Stormwater Management System*				
15 _	Drainage areas to each SWM measure delineated and drainage areas labeled in				
	acres. The information for the labeled areas must match the SWM System				
	Summary Table and the information provided in the SWM Concept Report				
	Proposed limits of disturbance*				
	Location and dimensions of all proposed easements (including P.U.E.'s)*				
18 _	Location and dimensions of proposed SWM easements where required by Chapter 19*				
10					
19_	Proposed maintenance and inspection access routes to SWM measures from public rights-of-way*				
20					
40 _	Sufficient information to support the vertical aspects of the SWM System. This may include existing and proposed inverts at critical locations and/or schematic				
	profiles based on field verified information utilizing the datum				
21	SWM System Summary Table - The table should be organized by drainage area,				
<u> </u>	study point, and/or SWM measure, as applicable. At a minimum the drainage area				
	(ac), the impervious area (ac), the type of measure, the target, required and				
	provided ESDv, PE, WQv, Rev, Cpv, and Qp10 as applicable shall be included in				
	the table. A comments column can be added if it assists in explaining what is being				
	proposed. SWM System Summary Table shall be located on cover sheet				
22	Seal, signature, license number of qualified preparer on all sheets				
	Add note to all sheets: This Plan Is For Stormwater Management Only				
D)	FORESTRY - SWM OVERLAY (This plan will assist City staff in assessing the level of E	nvironn	nental Site		
	Design (ESD) proposed including the application of planning techniques, applicable SWM in	neasure	s and		
	preservation of environmental features)				
1_	The Forestry - SWM Overlay Plan must also be submitted to the City Forester at				
	the time of submission of any SWM Concept to DPW or of any Forest				
	Conservation Plan to Forestry, whichever occurs first				
2	Items as listed in Section C, item 10 above		- <u></u> -		
3_	The SWM System Summary Table as detailed in Section C, item 21 above.				
	However, the Forestry - SWM Overlay Plan DOES NOT need to include the Tree				
	Summary Table, non-native and invasive information, and SWM measure access				
	for maintenance. The Summary Table shall be placed on the plan				
4	Preliminary delineation of existing forest, forest to be cleared, forest to be saved,				
	and reforestation areas*				
5	Preliminary Forest Conservation Worksheet (This can be a separate piece of paper				
	and does not need to be on the plan)				

Rockville's Review Initial Submission 1st 2nd 3rd E) PRELIMINARY EROSION AND SEDIMENT CONTROL PLAN (This plan is only required to be provided with Development SWM Concept submissions. This plan can be conceptual and will not be the plan that will be reviewed and approved by DPW for permitting or construction) Preliminary Erosion and Sediment Control Plan containing: Existing environmental features as shown on the NRI/FSD Proposed project improvements (including buildings, roads, parking, sidewalks, Existing and proposed SWM measures Existing topography and proposed grading at minimum 2' contour interval with spot elevations to support proposed drainage patterns Preliminary sequence of construction. Include phasing if applicable Proposed stabilization techniques* F) ONSITE DRAINAGE AREA MAP Soil delineation from USDA soil surveys, include identification of unsuitable soils as applicable Location of borings and/or infiltrations tests (for ESD practices, infiltration, bioretention, etc.) Information, including the boring number or designation (i.e. boring I-1) must match the Geotechnical Report (Section I below) Pre- and post-development time of concentration flow paths with lengths and type ____ of flow labeled and matching information in the SWM Concept Report* Pre- and post-development drainage area boundaries to each measure. Include offsite areas draining into the property if applicable. SWM for off-site areas must be provided when required by Ordinance or State Law G) OFF-SITE DRAINAGE AREA / SAFE CONVEYANCE MAP AND NOTIFICATION REQUIREMENTS Scale of map and topography shall be of sufficient level of detail to support the Engineer's analysis. Minimum scale shall be 1" = 200'. Minimum existing topography shall be 5 foot contours Upstream Areas and Conveyance - The map must illustrate upstream areas draining into the site including areas (ac), and drainage divides and must include information regarding the upstream conveyance system(s) i.e. overland flow, schematic pipe locations and sizes, existing channels and other drainage ways. This information must be of sufficient detail to illustrate the off-site areas that drain to the site and how the conveyance occurs Downstream Conveyance - The map must illustrate how runoff will leave the site, _ including information regarding the downstream conveyance system(s), such as schematic pipe location and sizes, existing channels and other drainage ways. The limits of the downstream conveyance must be shown to the nearest stream or pond outfall or to a distance of 500 feet of conveyance whichever occurs first Downstream Safe Conveyance Study - This study will only be required at Development SWM Concept stage unless otherwise directed by DPW. The limits of the study will be established by DPW at the Pre-Application SWM Concept stage. An analysis of potential downstream impacts/effects of the project on the receiving drainage system or watercourse Provide the list of adjacent and downstream owners to be notified in accordance with Chapter 19 and DPW SWM regulations. DPW may require evidence of the notification after submission of a SWM Concept

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H)	SWM CONCEPT REPORT			
1	An 8 1/2" x 11" or 11" x 17" version of the final SWM Concept Plan will be			
	required prior to approval. This will be attached to the SWM Concept approval letter when issued			
2 3				
4	An Overview Section which includes important information about the project			
	including the size of the property (ac), existing features found on the site, zoning, proposed development, impervious area proposed to be created (ac), a statement about whether the site qualifies as a "redevelopment" according to Chapter 19 with sufficient information to support the findings, the soil found on the site, the			
	watershed the site is located in and the location of any upstream or down stream ponds that may pose a dam breach hazard			
5	A <u>Proposed SWM Section</u> explaining how stormwater measures, consistent with			
	the City's SWM requirements and the MDE Manual, will be provided for the project.* This section must include the following information:			
6	A narrative that supports the Concept and the use of SWM as prioritized in Section 19-51 of Chapter 19 and explains:			
7	. How the Concept incorporates the protection and enhancement of natural resources			
8	. How efforts that have been made to maintain the existing drainage patterns and drainage areas			
9	The ESD techniques, for instance better site planning, minimization of			
	impervious surfaces, slowing down of runoff, and the use of nonstructural and approved innovative technologies that have been contemplated and why they have been selected. An explanation of which measures were contemplated and rejected and why should also be provided (can be a narrative, table, etc.). This information will assist in DPW's determination of whether the concept incorporates ESDs to the Maximum Extent Practicable (MEP)			
10_				
11 _	. Integration of erosion and sediment controls into the stormwater system/strategy			
12_	<u>Computation Section</u> - All computations as required to support the use of ESDs to			
	the MEP, structural measures and/or alternatives (such as a monetary contribution in lieu of on-site managed) must be included in the report.* Supporting computations shall utilize TR-55 and the MDE Manual, including Chapter 5, as applicable and as may be supplemented by future documents			
13 _	The SWM System Summary Tables as described in Section C above			
14_	If requesting use of SWM alternatives, the report shall include descriptions of the			
	proposed alternatives and written justification for the alternative that addresses the requirement of the Stormwater Management Regulations. Describe and document all site constraints that restrict providing full SWM controls			
15_	If proposing a SWM monetary contribution, a plan indicating sub-drainage area affected and a table listing the impervious acreage for each area and what type of			
	alternative is proposed (i.e., contribution for components of WQv, Cpv and/or Qp10)* Monetary Contribution requests for right-of-way areas must be broken out and reported separately from request for on-site areas			
16_	Preliminary sizing calculations for stormwater treatment practices including contributing drainage area, storage, and outlet configuration*			
17 _				

Initial Submission		Rockville's Review			
		2nd	3rd		
I) GEOTECHNICAL REPORT 1 Geotechnical report for the site signed, sealed and certified by the preparing engineering who must be registered in the state of Maryland. The testing must be performed at all locations where infiltration is feasible and shall generally be performed in a grid pattern with a minimum of five infiltration tests per acre according to MDE procedures. Any borings within the Critical Root Zone (CRZ) as defined by the Environmental Guidelines or the City Forester shall be completed with a hand auger only so as not to disturb the tree and root system. Infiltration tests must also be performed at the actual location of any proposed facilities if the grid layout does not already have a test within 20 feet of the proposed facility however, these tests (at the proposed facility locations) are only required with Development SWM Concepts. Infiltration testing is not required to be performed in areas where development is prohibited, such as stream valley buffers, wetlands, forest to be protected, etc. Infiltration testing is also not required.					
in soil type D if the Geotechnical Engineer verifies the soil type through on-site investigation 2 At a minimum the report must include a map with the boring locations and designations that match the SWM Concept Plan, the boring logs, infiltration rates and the seasonal high water level determinations. The report must also address the feasibility of infiltration measures and make recommendations as appropriate					
COMMENTS:					